

# C5

## IMU RTK Receiver



*Easy to Fix*



## VERSATILE. RUGGED. ACCURATE

- 100% more efficient to do surveying and staking-out
- 41% better performance in canopy environments
- Lifetime online face-to-face services
- Much easier RTK operations



ENHANCED  
SIGNALS  
TRACKING



ONE-CLICK  
TO ALL  
FUNCTIONS



COMPREHENSIVE  
STAKING-OUT



SUPER  
ACCURACY



CONNECTIONS  
IN SECONDS



CLOUD-BASED  
MANAGEMENT



## 100% MORE EFFICIENT TO DO SURVEYING AND STAKING-OUT

- 1608 channels, full support of all GNSS constellations.
- Advanced Full Star technology, to maximize the use of all the satellite signals.
- 4D IMU.
- RTK keeping technology, maintain fixed positioning when real-time corrections are lost.



## MEASURE ANYWHERE, WHEN YOU GET THERE

Double check technology, using mult-frequencys to solve GNSS signal, smart select



GNSS-IMU tight coupling, using one epoch to get fix ambiguity



41% performance improvement

## RTK CAN BE MUCH EASIER



Cable free, Bluetooth radio, work without complex connections.



Cloud-based data management



Staking-out from CAD basemap  
click to select the points to stake



One click to all functions User-friendly interface, make it easy to understand and use; Super menu, one click to access all functions.



Data sharing by bar code scanning



FACE-TO-FACE ASSISTANCE, AND UNLIMITED TRAINING REMOTE ONLINE SERVICE BY ONE CLICK, TO GET INSTANT SUPPORT.



# SPECIFICATIONS

## GNSS Performance

Channels	1608
Satellites tracking	BDS: B1I, B2I, B3I, B1C, B2a, B2b GPS: L1C/A, L2P (Y), L2C, L5 GLONASS: L1/L2 Galileo: E1, E5a, E5b, E6* QZSS: L1, L2, L5, L6* PPP: B2b-PPP SBAS: L1, L5
Positioning rate	10 Hz
Operation system	Linux
Initialization time	< 5 sec
Initialization reliability	> 99.9 %
Post-processing static	Horizontal: 2.5 mm + 0.5 ppm Vertical: 5 mm + 0.5 ppm
Real time kinematics (RTK)	Horizontal: 8 mm + 1 ppm Vertical: 15 mm + 1 ppm

## IMU Sensor

IMU	Supported
Accuracy	Less than 2.5 cm within 30°
Tilt angle	0°~60

## Hardware

Size (L x W x H)	133 mm x 133 mm x 85 mm
Weight	0.86 kg
Button	Power button
Operating temperature	-45°C~ +75°C
Storage temperature	-55°C~ +85°C
Water/Dust Proof	IP67
Shock resistance grade	IK08
Shock	Survive a 2 m drop

## Data Output

Correction data	CMR, RTCM2.X, RTCM3.X, Full Star
GPS data	NEMA 0183, PJK, Binary

## Feature

Intelligent voice	Data collector voice
Cloud service	Remote assistance, data sharing, etc.

## Static Data Recording

Format	RINEX
Data storage	8G internal memory

## Electrical

Battery capacity	Rechargeable and built-in Lithium-ion battery, 6,800 mAh
Working time	RTK Rover: up to 24h UHF RTK Base: up to 10.5 h Static: up to 25 h
External power	USB Type-C power, powerbank supported
Power consumption	Typical 2.2 W (depending on user settings)

## Communication

Ports	1 x USB Type-C port (data download, firmware update and charge) 1 x UHF antenna port (TNC female)
Bluetooth	Supported
Wi-Fi	Supported
Webpage configuration	Supported
NFC	Supported
UHF radio	Standard Internal Rx/Tx: 410 - 470 MHz Transmit Power: 0.5 W and 1 W Protocol: EFIX, Transparent, TT450, Satel3AS Range: Typical 3 km, up to 8km with optimal conditions. Link rate: 9,600 bps

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